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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/516,859	03/02/2000	Drew Bertagna	134/005	4216
35114	7590 04/28/2003			
ALCATEL INTERNETWORKING SYSTEM, INC. ALCATEL-INTELLECTUAL PROPERTY DEPARTMENT 3400 W. PLANO PARKWAY, MS LEGL2			EXAMINER	
			JUNTIMA, NITTAYA	
PLANO, TX	/30/3	0/5		PAPER NUMBER
.			2663 DATE MAILED: 04/28/2003	7

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Og/516,859 BERTAGNA, DREW Examiner Art Unit 2663 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time ramy be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after Six (3) MONTH'S from the mailing date of his communication. If the period for reply is pecified above, the mainum statutory period will apply and will expire Six (6) MONTH'S from the mailing date of his communication. If the period for reply is pecified above, the mainum statutory printing date of this communication. If the period for reply is pecified above, the mainum statutory printing date of this communication. If the period for reply is pecified above, the mainum statutory printing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication. Priling to this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are rejected. 7) Claim(s) 17 is/are allowed. 6) Claim(s) 17 is/are allowed. 6) Claim(s) 3.4,9.10 and 16 is/are objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. If approved, corrected drawings are required in r							
Examiner Nittaya Juntima 2663			Application No.	pplication No. Applicant(s)			
Nittaya Juntima 2663			09/516,859	BERTAGNA, DREW			
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	11)	• • • • • • • • • • • • • • • • • • • •		oved by the Examiner.			
12) The oath or declaration is objected to by the Examiner.							
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Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	* (
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application	14) 🗌 /						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)	Attachmer	nt(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal				

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DETAILED ACTION

Specification

- 1. The disclosure is objected to because of the following informalities:
 - on page 5, line 13, "101-109" should be changed to "111-119."

Appropriate correction is required.

Claim Objections

2. Claims 5-6 and 11-12 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The limitations "the first priority value is included in the packet as received" in claims 5 and 11, and "the second priority value is included in the packet as transmitted" in claims 6 and 12 do not further limit the limitations "receiving a packet including a first priority value" and "transmitting the packet including the second priority value" as cited in parents claims 1 and 8.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 5-6, 7-8, and 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over an applicant's admitted prior art, an IEEE standard 802.1Q.

Per claim 1, an applicant's admitted prior art, an IEEE standard 802.1Q, teaches remapping packet priority in a data communication switch having a plurality of ports (a bridge in a LAN which consists of a plurality of ports as known in the art, pg. 1, lines 15-18) receiving a packet (a Std. 802.1Q-compliant packet) including a first priority value (the inbound tag priority) on a first port (a reception port) (pg. 1, lines 15-21), determining a second priority value (the outbound tag priority) based on the first priority value (the inbound tag priority) and the virtual trunk value (the virtual trunk value is not defined, therefore, it reads on the reception physical port identifier) (pg. 1, lines 18-21), and transmitting the packet including the second priority value (the outbound tag priority) on a second port (a transfer port or a relay port) (as part of a forwarding process, the received packet is forwarded along with the outbound tag priority via a transfer port or a relay port, which may be connected to a bus or a trunk, to other bridge port to be transmitted to a destination device as known in the art).

An applicant's admitted prior art, an IEEE standard 802.1Q, does not teach determining a virtual trunk value based on a plurality of values. However, it would be obvious to one skilled in the art to determine the reception physical port identifier (a virtual trunk value) of the bridge by simply obtaining and reading the bits values (a plurality of values) assigned to the reception physical port as part of addressing scheme for port identification as known in the art.

Per claim 8, an applicant's admitted prior art, an IEEE standard 802.1Q, teaches remapping packet priority in a data communication switch having a plurality of ports (a bridge

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in a LAN which consists of a plurality of ports as known in the art, pg. 1, lines 15-18) receiving a packet (a Std. 802.1Q-compliant packet) including a first priority value (the inbound tag priority) on a first port (a reception port) (pg. 1, lines 15-21), determining a second priority value (the outbound tag priority) based on the first priority value (the inbound tag priority) and an identifier of the first port (the reception physical port identifier) (pg. 1, lines 18-21), and transmitting the packet including the second priority value (the outbound tag priority) on a second port (a transfer port or a relay port) (as part of a forwarding process, the received packet is forwarded along with the outbound tag priority via a transfer port or a relay port, which may be connected to a bus or a trunk, to other bridge port to be transmitted to a destination device as known in the art).

An applicant's admitted prior art, an IEEE standard 802.1Q, does not teach that a plurality of other values includes an identifier of the first port. However, it is well known in the art that an identifier of the port, i.e. the reception physical port identifier in this case, is included in a plurality of bits (a plurality of other values) which is assigned to the reception physical port as part of the addressing scheme for port identification.

Claim 13 is a network interface claim corresponding to method claim 1, and is rejected under the same reason set forth in claim 1 with the addition that an applicant's admitted prior art, an IEEE standard 802.1Q, does not teach i) an access controller, ii) a switching engine, iii) a first element, and iv) a second element. However, it would have been obvious to one skilled in the art to include i) an access controller having a port to receive the packet for processing, ii) a switching engine for successful packet processing, i.e. packet priority remapping, by transferring the packet from the access controller, transmitting a plurality of values (a plurality of bits) to a

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first element, receiving a virtual trunk identifier (the reception physical port identifier) from the first element, transmitting the virtual trunk identifier and the first priority value to a second element, receiving a second priority value in response, and transmitting the packet with the second priority value, iii) as known in the art a first element may be a database or table which contains an entry for the given a plurality of bit values and the corresponding virtual trunk identifier for port identification as part of the addressing scheme, and iv) a second element may be a database or table which contains an entry for the given virtual trunk identifier and the first priority value similar to the user priority regeneration table taught by an applicant's admitted prior art, an IEEE standard 802.1Q, for obtaining a second priority value.

Per claims 2 and 14, an applicant's admitted prior art, an IEEE standard 802.1Q, does not teach that the plurality of values includes an identifier of the first port. However, the plurality of bits values (a plurality of values) assigned to the reception physical port is an identifier of the reception port (the first port).

Per claims 5 and 11, an applicant's admitted prior art, an IEEE standard 802.1Q, teaches that *the first priority value* (the inbound tag priority) *is included in the packet as received* (pg. 1, lines 15-18).

Per claims 6 and 12, an applicant's admitted prior art, an IEEE standard 802.1Q, teaches that the second priority value (the outbound tag priority) is included in the packet as tranmitted (as part of a forwarding process, the received packet is forwarded along with the outbound tag priority via a transfer port or a relay port which may be connected to a bus or a trunk to other bridge port to be transmitted to a destination device as known in the art).

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port identification in an addressing scheme.

Per claim 7, an applicant's admitted prior art, an IEEE standard 802.1Q, fails to teach reducing the plurality of values to a smaller-bit value and using the smaller-bit value in a table look-up. However, it is well known in the art to reduce or compress a plurality of bits to save memory space. Therefore, it would have been obvious to one skilled in the art to reduce or compress a plurality of bits (a plurality of values) into a compressed bit value to save memory space in a table look-up which contains the corresponding reception physical port identifier for

Per claim 15, an applicant's admitted prior art, an IEEE standard 802.1Q, teaches that *the* received packet includes a VLAN identifier (a VLAN identifier is included in a received tagged packet, pg. 1, lines 9-11 and 15-18)

Allowable Subject Matter

- 4. Claims 3-4, 9-10, and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claim 17 is allowed. The following is a statement of reasons for the indication of allowable subject matter: a switch engine coupled to the access controller for receiving the packet from the access controller, for consulting a plurality of databases to resolve a second priority value from a plurality of values including an identifier of the port, the VLAN identifier and the first priority value and for transmitting the packet including the second priority value.

Conclusion

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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Fite, Jr. et al. (USPN 6,252,888), disclosing providing data communications among network devices using tagged and untagged frame formats;
- Crinion et al. (USPN 6,181,699), disclosing a content addressable memory for storing port identifiers, tagging information, and priority information as lookup data;
- Kawafuji et al. (USPN 5,999,536), disclosing a router with a plurality of interfaces and a memory table containing VLAN ID and corresponding port numbers for communicating with a plurality of LANs;
- Williams et al. (USPN 6,515,993 B1), disclosing an integrated multiport switch for altering VLAN tags on a port by port basis; and
- Rijhsinghani et al. (USPN 6,526,052 B1), disclosing a switch for routing communications to destinations, within a VLAN system capable of configuring multiple types of VLANs, based upon predefined rules of precedence.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nittaya Juntima whose telephone number is 703-306-4821. The examiner can normally be reached on Monday through Friday, 8:00 A.M 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 703-308-5340. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-9408 for regular communications and 703-827-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

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should be directed to the receptionist whose telephone number is 703-305-3900.

Nittaya Juntima April 22, 2003

V

Chau NGUYEN
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600